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PTO/SB/82 (10-00)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**REVOCATION OF POWER OF
ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	09/931,375
Filing Date	August 17, 2001
First Named Inventor	Matthew L. Warman
Group Art Unit	1645
Examiner Name	Kerr, Kathleen M.
Attorney Docket Number	27708/04049

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☒ Please change the correspondence address for the above-identified application to:

☒ Customer Number

24024

Place Customer
Number Bar Code
Label here

OR

☐ Firm or
Individual Name

Address

Address

City

Country

State

ZIP

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name

Signature

Date

CASEY PORTO
ASSOCIATE VICE PRESIDENT
TECHNOLOGY TRANSFER
CASE WESTERN RESERVE UNIVERSITY

9-10-03

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

Application Number	09/931,375
Filing Date	August 17, 2001
First Named Inventor	Matthew L. Warman
Title	Regulator Gene and System...
Group Art Unit	1645
Examiner Name	Kerr, Kathleen M.
Attorney Docket Number	27708/04049

I hereby appoint:

☒ Practitioners at Customer Number

24024

Place Customer
Number Bar Code
Label here

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

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☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).**SIGNATURE of Applicant or Assignee of Record**

Name

Signature

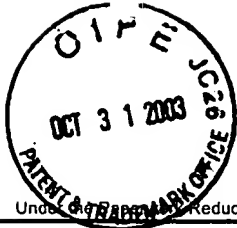
Date

CASEY PORTO
ASSOCIATE VICE PRESIDENT
TECHNOLOGY TRANSFER
CASE WESTERN RESERVE UNIVERSITY

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

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PTO/SB/96 (08-00)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Project of 1999, this form is required to respond to a collection of information unless it displays a valid OMB control number.

TECH CENTER 1600/2000

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Matthew L. Warman, et al.

Application No./Patent No.: 09/931,375

Filed/Issue Date: August 17, 2001

Entitled: Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis

Case Western Reserve University, a university

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☒ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

9-10-03

Date

CASEY PORTO
ASSOCIATE VICE PRESIDENT
TECHNOLOGY TRANSFER
CASE WESTERN RESERVE UNIVERSITY

Typed or printed name

Signature

Title

ASSIGNMENT

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, we, the undersigned, **Matthew L. Warman**, 22026 Calverton Road, Shaker Heights, Ohio 44122, hereby assign all right, title and interest to **Case Western Reserve University**, 10900 Euclid Avenue, Cleveland, Ohio 44106-4971, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

REGULATOR GENE AND SYSTEM USEFUL FOR THE DIAGNOSIS AND THERAPY OF OSTEOPOROSIS

set forth in the application serial number 09/931,375, filed on August 17, 2001, which claims priority to provisional application serial number 60/304,851, filed on July 13, 2001, provisional application serial number 60/226,119, filed on August 18, 2000, and provisional application serial number 60/324,337, filed on September 22, 2000, for United States Letters Patent, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and in substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and the testify in any proceedings relating to said inventions, patent applications and Letters Patent.

(1)
Date: 8/8/03

Matthew L. Warman
Matthew L. Warman

State of)
) SS:
County of)

On this 8 day of August, 2003, personally appeared before me, Matthew L. Warman, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date: 8/8/03

Carmela Thomas
Notary Public

**CARMELA THOMAS, NOTARY PUBLIC
IN AND FOR THE STATE OF OHIO
MY COMMISSION EXPIRES NOV. 1, 2004**

ASSIGNMENT

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, we, the undersigned, **Yaoqin Gong**, Jinan, Shandong, People's Republic of China, hereby assign all right, title and interest to **Case Western Reserve University**, 10900 Euclid Avenue, Cleveland, Ohio 44106-4971, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

REGULATOR GENE AND SYSTEM USEFUL FOR THE DIAGNOSIS AND THERAPY OF OSTEOPOROSIS

set forth in the application serial number 09/931,375, filed on August 17, 2001, which claims priority to provisional application serial number 60/304,851, filed on July 13, 2001, provisional application serial number 60/226,119, filed on August 18, 2000, and provisional application serial number 60/324,337, filed on September 22, 2000, for United States Letters Patent, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and in substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and the testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Date: 9/3/03


Yaoqin Gong

State of

)

)

SS:

County of

)

On this ____ day of _____, 2003, personally appeared before me, Yaoqin Gong, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Date:

Notary Public

公 证 书

(2003)鲁证外字第5757号

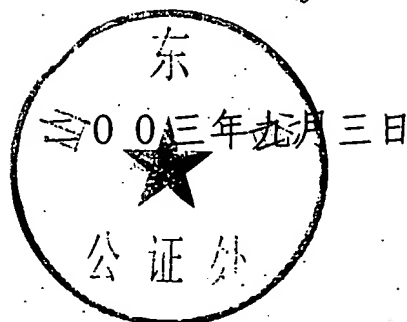
兹证明龚瑶琴（女，一九六一年一月十一日出生）于二〇〇三年九月三日来到我处，在我的面前，在前面的英文委托书上签字。

中华人民共和国山东省公证处

公 证 员

高 静

XX07645969



Notarial Certificate

(Translation)

(2003) Lu Zheng Wai Zi No.5757

This is to certify that Gong Yaoqin (female, born on January 11, 1961) came to my office and affixed her signature in my presence on English Assignment attached hereto on September 3, 2003.

Notary: Gao Jing (signature)

Notary Public Office (seal)

Shandong Province

The People's Republic of China

September 3, 2003

XX07645232

公 证 书

(2003) 鲁证外字第5758号

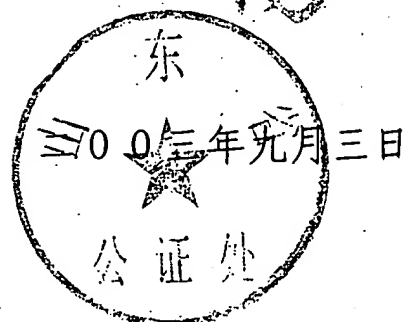
兹证明前面的 (2003) 鲁证外字第5757号《公证书》的英文译本内容与该公证书中文原本相符。

中华人民共和国山东省公证处

公 证 员

高 静

XX07645970



Notarial Certificate

(Translation)

(2003) Lu Zheng Wai Zi No.5758

It is certified that the content of the English Version
of the (2003) Lu Zheng Wai Zi No.5757 < Notarial
Certificate > is the same as the original Chinese One.

Notary: Gao Jing (signature)

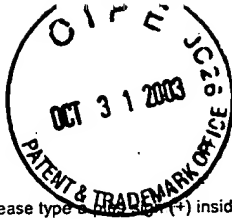
Notary Public Office (seal)

Shandong Province

The People's Republic of China

September 3, 2003

XX07645231



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PTO/SB/82 (10-00)

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**REVOCATION OF POWER OF
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Application Number	09/931,375
Filing Date	August 17, 2001
First Named Inventor	Matthew L. Warman
Group Art Unit	1645
Examiner Name	Kerr, Kathleen M.
Attorney Docket Number	27708/04049

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OR

☒ Please change the correspondence address for the above-identified application to:

☒ Customer Number 24024 →

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Number Bar Code
Label here

OR

<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City					
Country		State		ZIP	
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name	O. Prem Das, Ph.D., Director, Office of Technology Licensing
Signature	
Date	10-06-03

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

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First Named Inventor	Matthew L. Warman
Title	Regulator Gene and System...
Group Art Unit	1645
Examiner Name	Kerr, Kathleen M.
Attorney Docket Number	27708/04049

I hereby appoint:

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Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

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Name

O. Prem Das, Ph.D., Director, Office of Technology Licensing

Signature

O. Prem Das

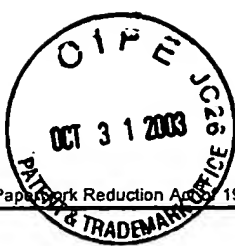
Date

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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Matthew L. Warman, et al.

Application No./Patent No.: 09/931,375 Filed/Issue Date: August 17, 2001

Entitled: Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis

President & Fellows of Harvard College, a university

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☒ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

10-06-03

Date

O. Prem Das, Ph.D.

Typed or printed name

O. Prem Das

Signature

Director, Office of Technology Licensing

Title

WORLDWIDE ASSIGNMENT AND AGREEMENT

WHEREAS, Bjorn R. OLSEN (hereinafter referred to as "ASSIGNOR") has rights as an inventor in an invention entitled **Regulator Gene and System Useful for the Diagnosis and Therapy of Osteoporosis** for which an application for United States Letters Patent was filed on **August 17, 2001** as application No. **09/931,375**; and an international application filed on **August 17, 2001** as application No. **PCT/US01/41788**

WHEREAS, **President and Fellows of Harvard College**, having a principal place of business at **17 Quincy Street, Cambridge, Massachusetts 02138** (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire interest therein;

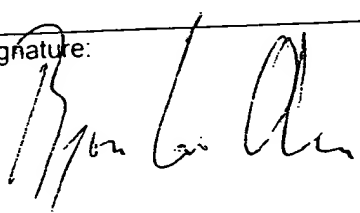
NOW THEREFORE, in view of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest worldwide in and to (a) the above-identified invention or inventions and all improvements and modifications thereof, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representatives or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Heller Ehrman White & McAuliffe** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

NAME AND SIGNATURE OF INVENTOR		
Name: Bjorn R. OLSEN	Signature: 	Date: 1/22/02.